

Technical Data Sheet

MVA 2453 L/ 44 % N.D.

High-performance superplasticizer for concrete

Characteristics / Chemistry

MVA 2453 L/44% N.D. is an aqueous solution of a polymer based on a modified polycarboxylic ether.

The product does not contain a defoamer. In order to achieve optimum performance, we recommend to use the product in combination with a suitable defoamer system.

Fields of Application

MVA 2453 L/44% N.D. is especially optimized for plastification and water reduction of cement based materials, e.g.

→ raw material for concrete superplasticizer and plasticizer formulations

Fields of application are e. g.

- ready-mix concrete
- precast concrete
- pre-stressed concrete
- fair-faced concrete
- self-compacting concrete

Technical Data

Physical shape	aqueous solution
Appearance	clear to slightly turbid, slightly yellowish to yellowish-brownish
Solids content, [%]	43.0 to 45.0
Density (20 °C), [g/cm³]	1.08 to 1.12
pH-value (20 °C)	5.0 to 8.0
Dosage recommendation, [%] in relation to weight of binder	0.15 to 0.70

Further Technical Data

Packaging

in bulk
1,060 kg container

Storage

to be stored in its unopened original packaging, please **store dry at usual ambient temperatures** and protect from excessive heat (below 40 °C); please **stir thoroughly** after longer storage periods; as the product is prone to gas emission; please take care for a **sufficient ventilation** of storage and dosage facilities

Frost resistance

withstands any number of freezing/thawing cycles, please thaw and homogenize frozen material thoroughly at 20 °C

Shelf life

1 year

Storage class

12 (non-flammable liquids)

Transport regulation

not known as a dangerous good according to transport regulations;
due to the product's proneness for gas emission it is not suitable for airfreighting respectively only under very limited conditions

Miscellaneous

For optimum plastification the adjustment of dosage rate and mixing time is recommended to achieve special job site requirements.

MVA 2453 L/44% N.D. is a solution with a high solids content. If stored over a long period of time at lower temperatures, we recommend dilution in order to improve pumpability.

MVA 2453 L/44% N.D. is a superplasticizer based on latest polymer technology. These types of superplasticizers typically contain certain side chains based on polyethylene glycol. Due to raw material synthesis of the polyethylene glycol, the nature of radical polymerization and the composition, it is known that this technical product has some natural colour variations from nearly colourless to yellowish up to slightly brownish. However, these colour variations have no influence on the application performance of the product. It is not known that the product colour changes significantly over time under normal storage conditions.

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether expressed or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of goods. Performance and suitability of the product described herein have to be verified by testing, which have to be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used. In addition our general terms and conditions for sale are valid.

Issue: April 2006

This technical note is valid until replaced by a new issue.

Degussa Construction Polymers GmbH
Dr.-Albert-Frank-Strasse 32, 83308 Trostberg / Germany
Tel.: +49-86 21-86-28 68 * Fax: +49-86 21-86-29 95
www.degussa-cp.com * degussa-cp@degussa.com

construction 
polymers